

November 15, 2016



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November 15, 2016

Ms. Lori Simmons
Arkansas Department of Health
4815 West Markham Street
Little Rock, Arkansas 72205
Via email Lori.Simmons@arkansas.gov

Re: Georgia-Pacific, Crossett Mill - Biweekly Air Monitoring Report for Hydrogen Sulfide

Dear Ms. Simmons,

Following is the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H₂S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of October 19th through November 1st.

Summary of Results

Included in this report are three plots presenting H₂S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour). Please note, observed H₂S concentrations were elevated on October 22nd and 30th. The highest 30-minute average concentration on the 22nd was 113.18 ppb and 90.56 ppb on the 30th.

Also included in this report is a summary of results from the daily 1-point QC checks performed during this biweekly period. The QAPP establishes goals for precision and bias as a coefficient of variation (CV) <10% and ± 10%, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1.

There were no occurrences of data loss, other than those resulting from automated daily 1-point QC and weekly calibration checks. Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H₂S monitor was operating in accordance with the QAPP.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final table. All met parameters have 100% data capture for this report period.

Please feel free to contact me if you have any questions or need any additional data.

Sincerely,



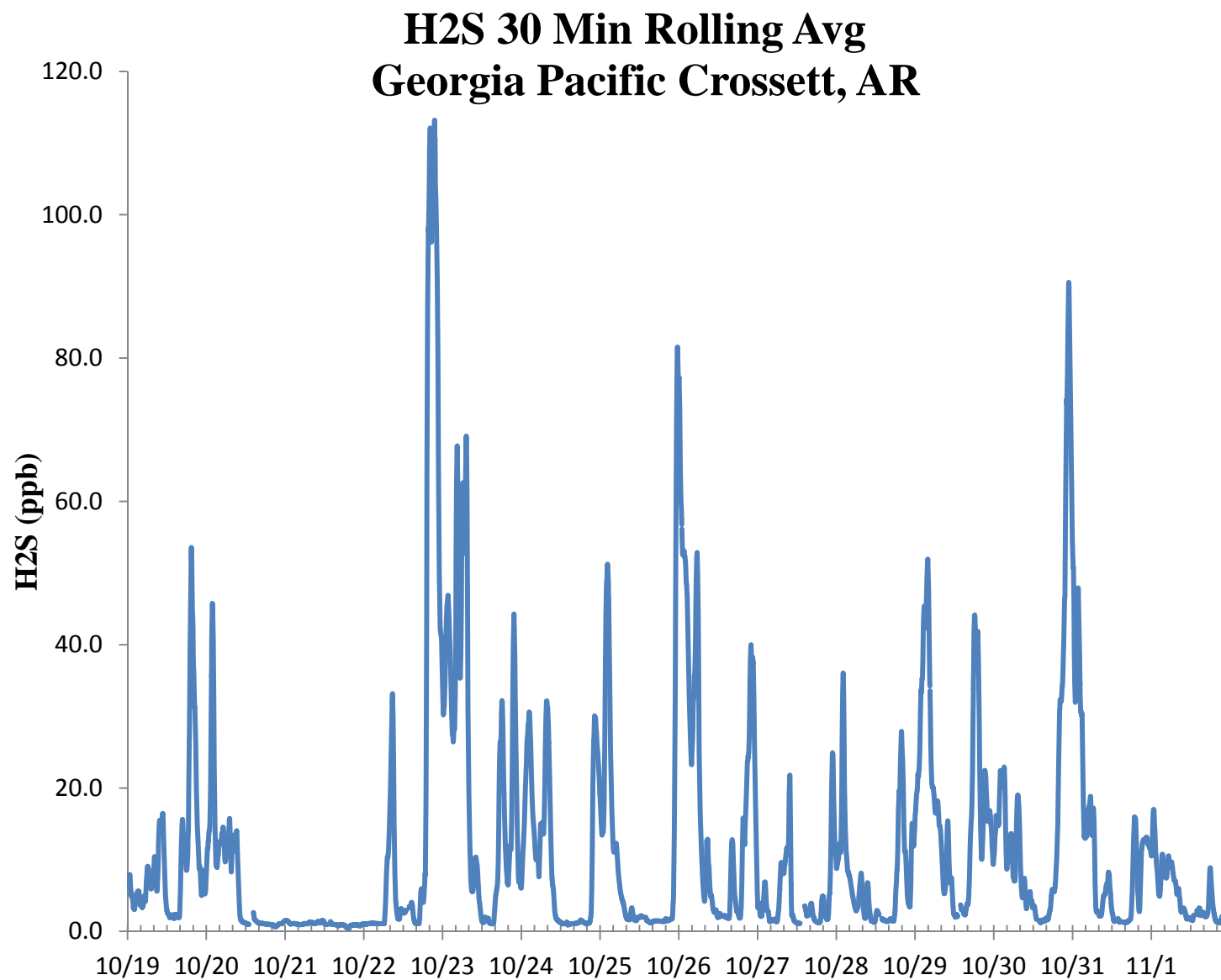
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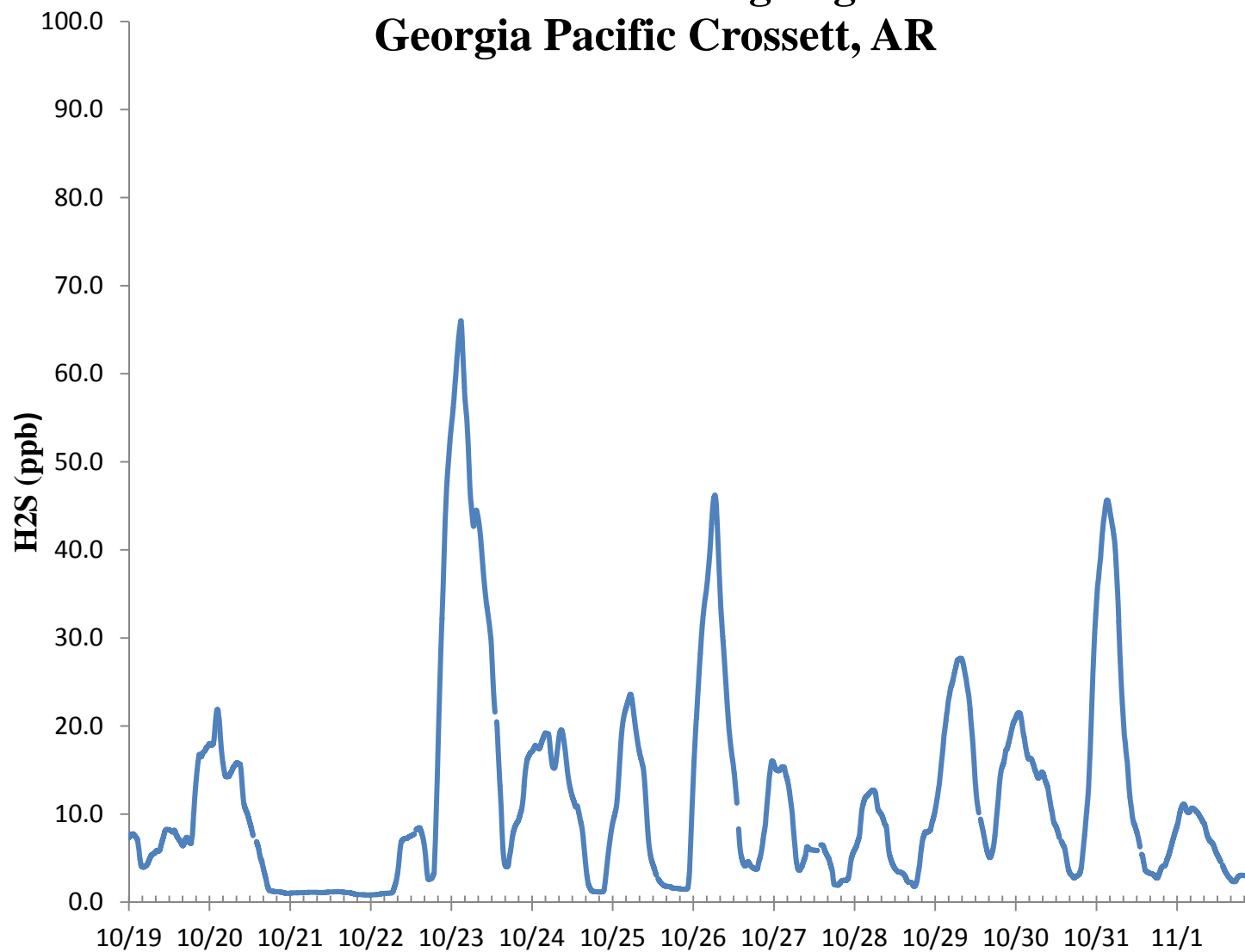
Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

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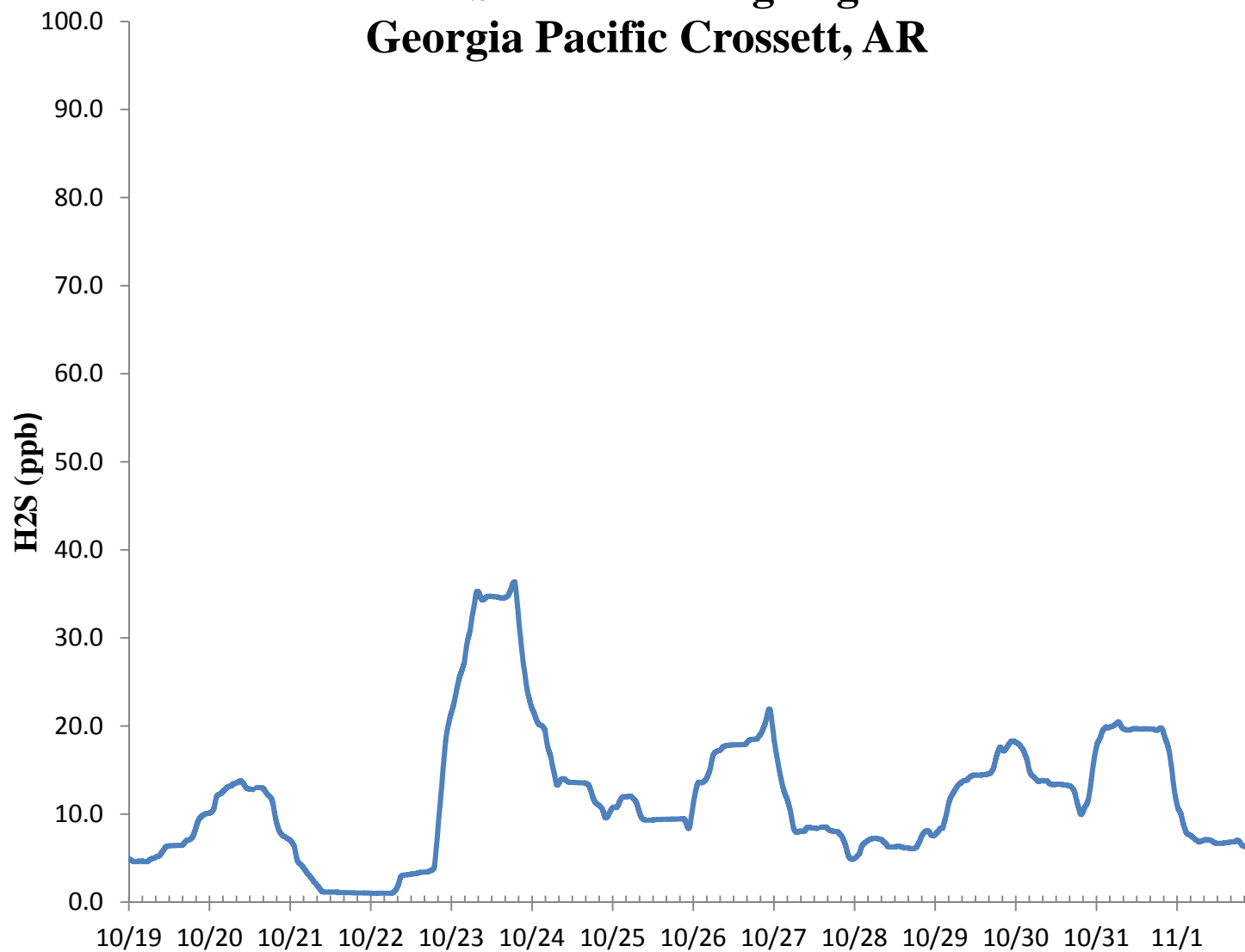
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov



H2S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



GP - Crossett, AR									Compound of Interest: H ₂ S					CV _{ub} (%)	Bias (%)	
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d ²									
10/19/2016 13:00	70.4	70.0	0.6	-2.893	0.327	0.571	0.327									
10/20/2016 13:00	69.9	70.0	-0.1	75th Percentile	0.020	0.143	0.020	n	S _d	S _{d2}	Σ d	"AB" (Eqn 4)				
10/21/2016 13:00	67.5	70.0	-3.6	-1.464	12.755	3.571	12.755	14	1.242	4.602	29.571	2.112				
10/22/2016 13:00	67.4	70.0	-3.7		13.796	3.714	13.796	n-1	Σd	Σd ²	Σ d ²	"AS" (Eqn 5)				
10/23/2016 13:00	68.4	70.0	-2.3		5.224	2.286	5.224	13	-28.429	77.776	77.776	1.085				
10/24/2016 13:00	68.9	70.0	-1.6		2.469	1.571	2.469									
10/25/2016 13:00	67.6	70.0	-3.4		11.755	3.429	11.755						Bias (%) (Eqn 3)	Both Signs Positive		
10/26/2016 13:00	68.2	70.0	-2.6		6.612	2.571	6.612						2.63	FALSE		
10/27/2016 13:00	67.9	70.0	-3.0		9.000	3.000	9.000	CV (%) (Eqn 2)	1.69				Signed Bias (%)	Both Signs Negative		
10/28/2016 13:00	69.1	70.0	-1.3		1.653	1.286	1.653						-2.63	TRUE		
10/29/2016 13:00	69.0	70.0	-1.4		2.041	1.429	2.041									
10/30/2016 13:00	68.7	70.0	-1.9		3.449	1.857	3.449	Upper Probability Limit	Lower Probability Limit							
10/31/2016 13:00	68.7	70.0	-1.9		3.449	1.857	3.449	0.4	-4.46							
11/1/2016 13:00	68.4	70.0	-2.3		5.224	2.286	5.224									

Percent Differences

Date	Percent Difference
10/19/2016	1.0
10/20/2016	0.0
10/21/2016	-4.0
10/22/2016	-4.0
10/23/2016	-2.0
10/24/2016	-2.0
10/25/2016	-4.0
10/26/2016	-3.0
10/27/2016	-3.0
10/28/2016	-3.0
10/29/2016	-2.0
10/30/2016	-2.0
10/31/2016	-2.0
11/1/2016	-2.0

Meteorological Summary

